

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-002411**Date Inspected:** 05-May-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name:	N/A	CWI Present:	Yes	No			
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No	N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No	N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No	N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No	N/A
				Delayed / Cancelled:	Yes	No	N/A

Bridge No: 34-0006**Component:** Tower Mock-up**Summary of Items Observed:**

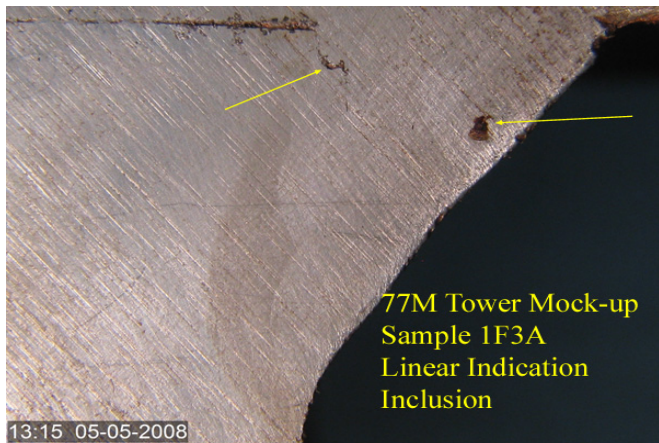
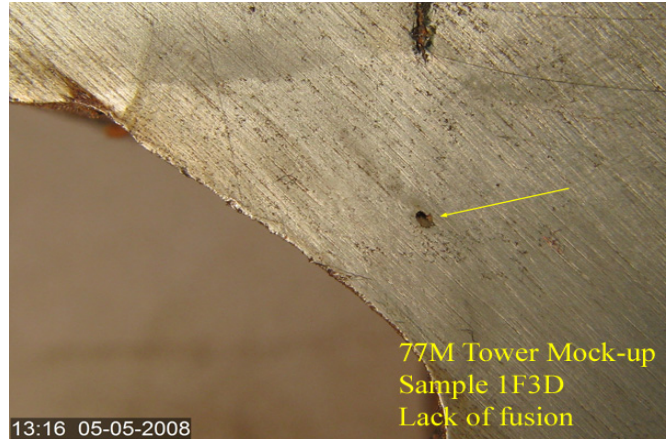
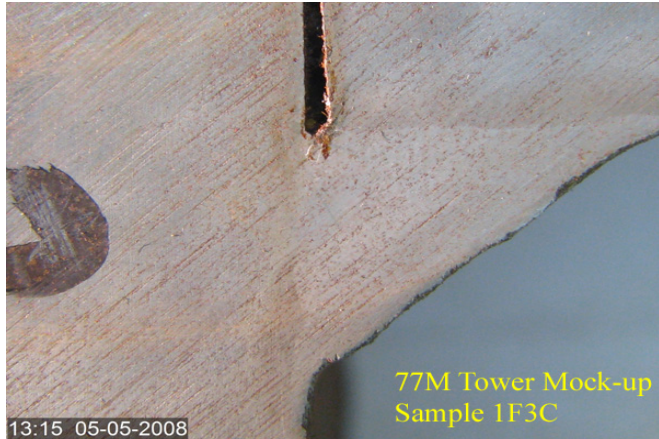
The Quality Assurance (QA) Inspector Gregory Bertlesman arrived on site at the Zhenhua Port Machinery Company facility on Changxing island, China to periodically monitor welding and Quality Control functions. While on site the Quality Assurance Inspector observed and/or discovered the following.

77 Meter Mock-up Macro Etch Samples

The Quality Assurance Inspector performed an additional review of macro etch samples for the 77M Tower Mock-up. The Quality Assurance Inspector recorded several measurements which included theoretical throat, actual throat, weld size, and reinforcement size. Of the forty-two weld specimens evaluated by the Quality Assurance Inspector, it was determined that two contained weld root cracks, seven were undersized, two contained unacceptable inclusions, five contained lack-of-fusion, and one, 8C2, appeared to have been labeled incorrectly. ZPMC also identified one specimen, 1F3C, as having lack-of-fusion, which the Quality Assurance Inspector had not identified as such. This Information was recorded and forwarded to Assistant Structures Material Representative Robert Reynolds for review. Below are several photographs illustrating the discrepancies.

WELDING INSPECTION REPORT

(Continued Page 2 of 2)



Summary of Conversations:

As stated in the contents of the above report.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (909) 987-4661, who represents the Office of Structural Materials for your project.

Inspected By:	Bertlesman,Greg	Quality Assurance Inspector
Reviewed By:	Cuellar,Robert	QA Reviewer
